

1 TGGTGGCTGAGGAGTATCACCTCTGGCTCAAGATGGACAAAGAACGCTGGCTTACGCCATATCCAGATCTGCAATGACAGCTCCGGCA
 M D N K K R L A Y A I I I Q F L H D Q L R H2
 G G L S S D A Q E S L E V A I O C L E T A F G V T V E D S D L A L >
 101 CGGGGGCTCTGGCTGAGGAGCTTGGAGCTGGAGACTGCTGGAGACTGCTGGCTGGGGTGGCGAGCTGAGCTGGCTGGCTGGCT
 P Q T L P E T I F E A A T G K E M P Q D L R S P A R T P P S E E D S >
 201 CCTGAGACTCTGGCTGAGGAGTATTGAGGGCTGCGCAAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGACT
 P A N A V Y F C N R A A A Y S K L G N Y A G A V O D C E R A I C J >
 301 CAGAGGGAGGGAGGGCTCAAAACCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGC
 A E A E R L K T E G N E Q M K V E N F E A A V H F Y G K A J E L N >
 401 CCCACCCACGGCTTAATTCTCGAACAGGCCAGCTCAAGAACCTCGCAACTTAAGCAAGCTGGCTGCGAGGAGCTGGCTGGCT
 D P A Y S K A Y G R M G L A L S S L N K H V E A V A Y Y K K A L E L >
 501 GACCCGGCTTACAGGAGGGCTTACGGAGGATGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGC
 D P A Y S K A Y G R M G L A L S S L N K H V E A V A Y Y K K A L E L >
 601 TGGACCCGACACAGGAGCATACAGGCTAACCTCAAGATAGGGAGCTGAAGTGGGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGC
 D P D N E T Y K S N L K I A E L K L R E A P S P T G G V G S F D >
 701 CCCGGCCGGCTAACACCCCTGGCTCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGC
 A G L L N N P G F M S M A S N L M N N P Q I Q Q L M S G M I S G G >
 801 AACAAACCCCTGGAAACTCCGGACACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGA
 N N P L G T S P S Q N D L A S L I Q A G Q Q F A Q Q M Q Q Q N >

FIG. 1A

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FIG. 2A

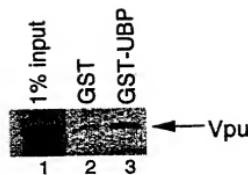


FIG. 2B

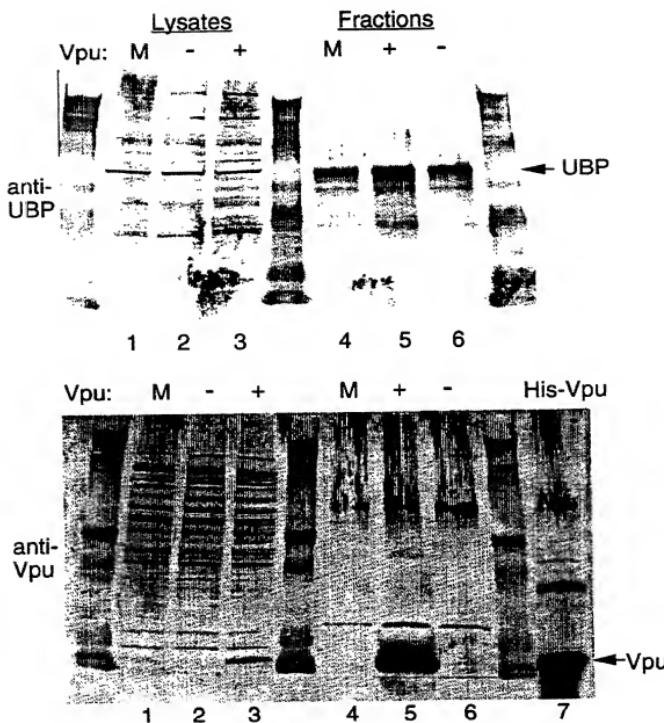


FIG 3A

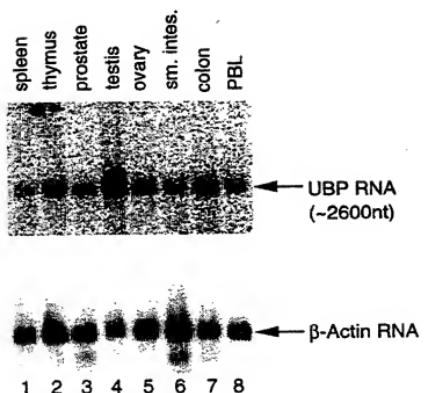


FIG 3B

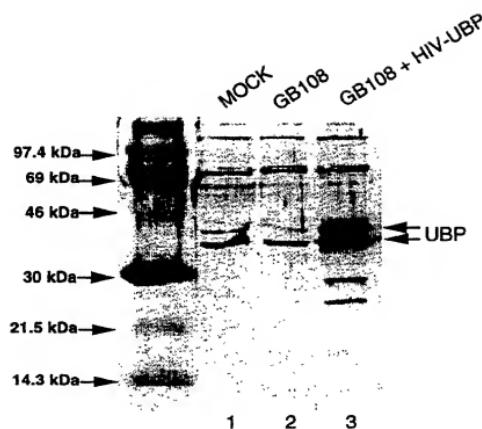
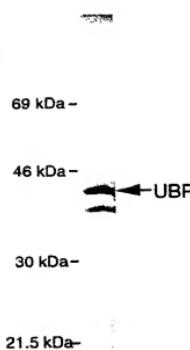


FIG 3C

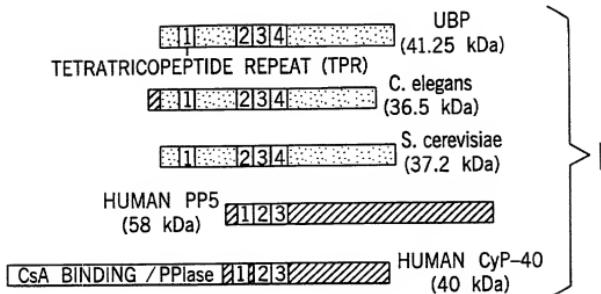


FIG. 4A

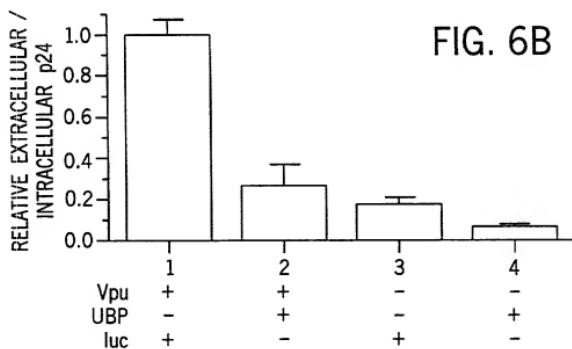


FIG. 6B

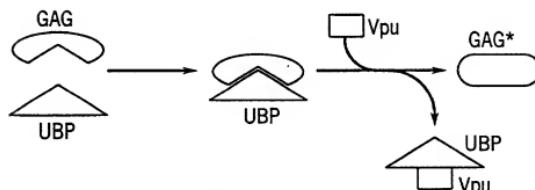


FIG. 7

STRUCTURED "BLIND" OUT

CONSENSUS * - - * G - * Y - - - * - - A * - - F - - A * - - P - - - - FIG. 4B

Y

UBP L R H G G L S S D A Q E S S L E V A I Q C L E T A F G V T V E D S D L TR1 (19-32)
 C eleg V S Q N Q A T A E Q A E A L E V A I Q C L E H S F G Q L D D A S Y A F TR1 (38-71)
 Scarev. V E K K E T S E D G A D S I L N V A M M D C I S E A F G F E R E A V S G TR1 (20-53)

UBP L K T E G N E Q M K V E N F E A A V H F Y G K A I E L N P A N A V Y TR2 (94-127)
 C eleg Q K E E G N D L M K A S Q F E A A V Y Q K V N A A I K L L N R D P V Y TR2 (108-140)
 Scarev. Q K M Q G N K A M A N K D Y E L A I N K V L P T N A I Y TR2 (105-138)
 Pp5 Q K T Q A N D Y F K A K D Y E N A K D Y E L N P I S N A I Y TR2 (125-158)
 Qp-40 Q K N I G N T F F K S Q N W E M A K K Y A E V U R Y V D S S K A V TR2 (226-259)

UBP F C N R A A Y S K L G N Y A G A V Q D C E R A I C I D P A Y S K A TR3 (128-161)
 C eleg F C N R A A A Y C R L E F Q Y D L A I Q D C R T A I A I D P S Y S K A TR3 (141-174)
 Scarev. Y A N R A A A H S S L K E Y D Q A V Y K D A E S A I S I D P S Y F R G TR3 (139-172)
 Pp5 Y G N R S L A Y L R T E C Y G Y A L G D A T R A D E L D K K Y I K G TR2 (59-92)
 Qp-40 V L N I G A C K L K M S N W Q G A I D S C L E A L E L D P S N T K A TR2 (276-309)

UBP Y G R M G L A L S S L N K H V E A V A Y K K A L E L D P D N E T Y TR4 (162-195)
 C eleg W G R M G L A Y S C Q N R I Y E H A A E A Y K K A L E L E P N Q E S I T TR4 (175-208)
 Scarev. Y S R L G F A K Y A Q G K P E E A I I E A Y K K V I D I E G D N A I E TR4 (173-206)
 Pp5 Y Y R R A A S N M A L G K F R A A I R D Y E T V K V K P H D K D A TR3 (93-126)
 Qp-40 L Y R R A Q G W Q G L K E Y D Q A L L A D L K K A Q G I A P E D K A I TR3 (310-343)

FIG. 5A

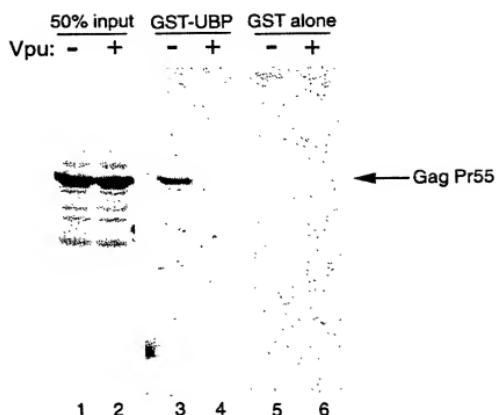
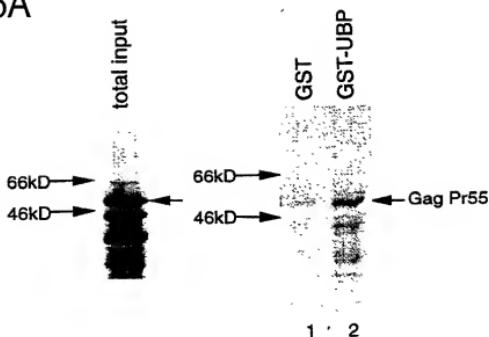


FIG. 5B

201050-8750600T

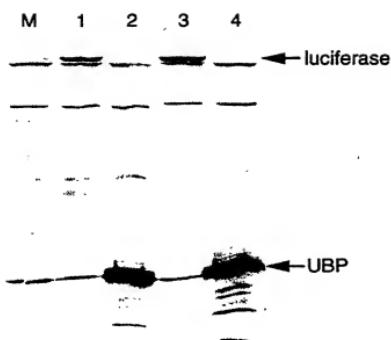


FIG. 6A